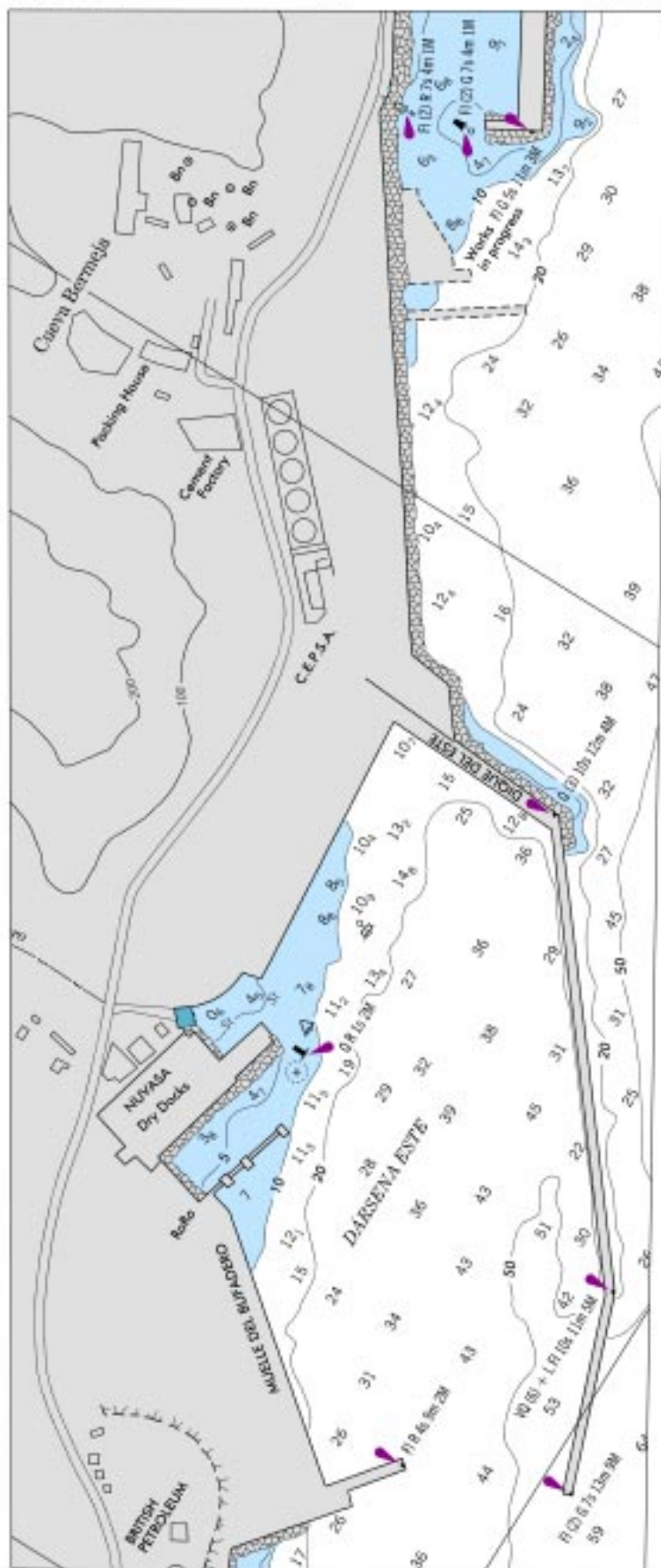


NM 30/00

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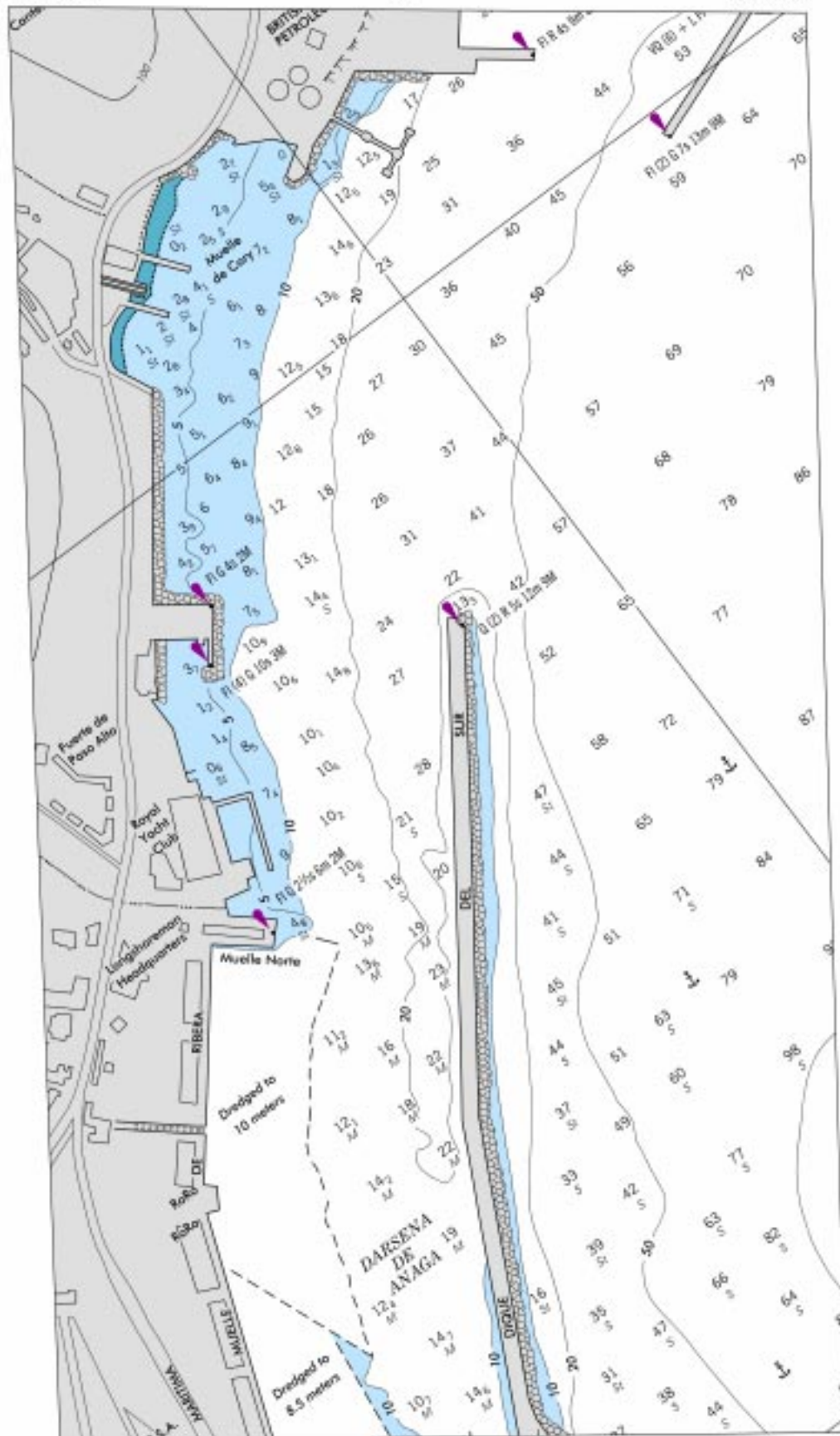


I-2.1

Chart 51341

(B)

NM 30/00



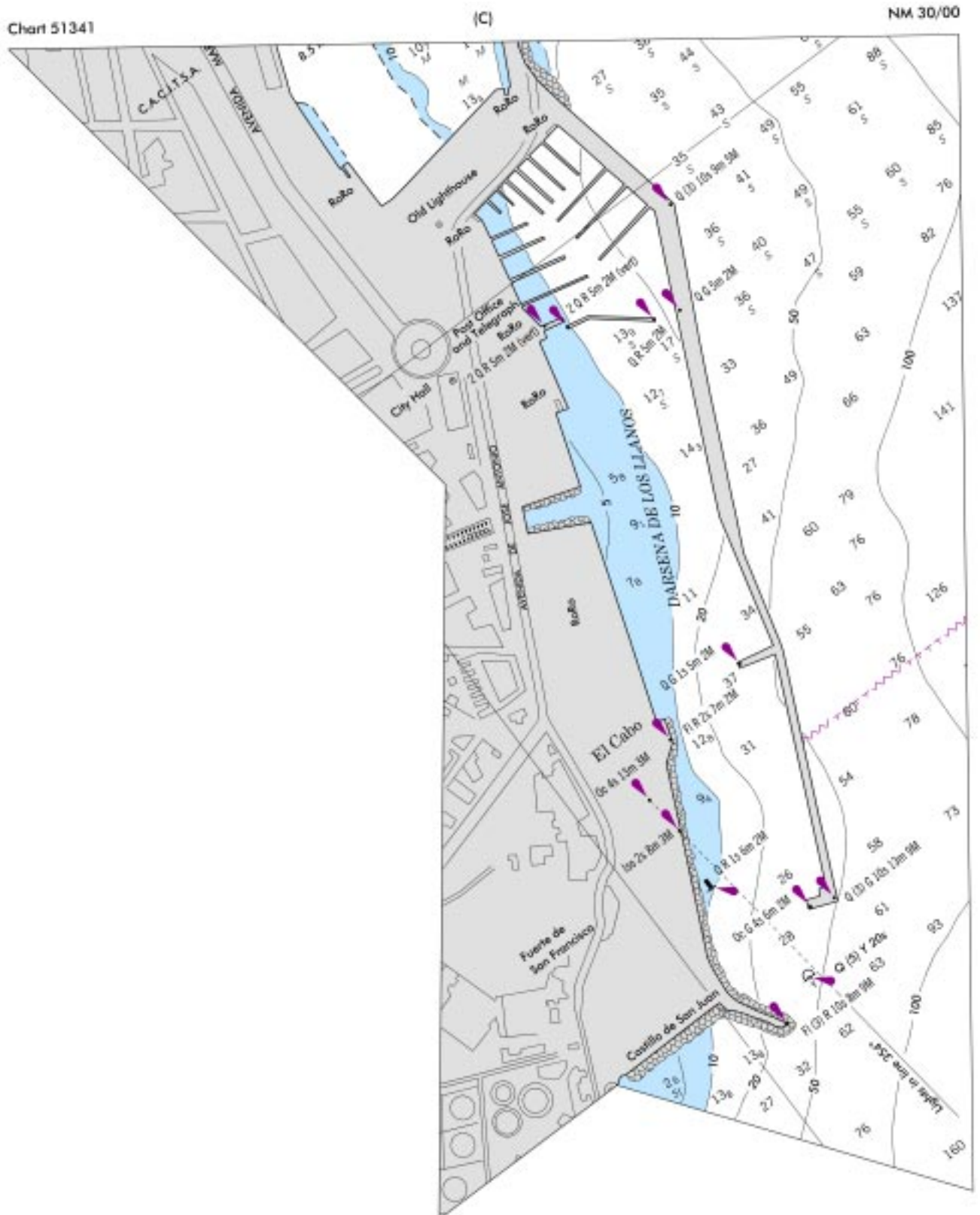
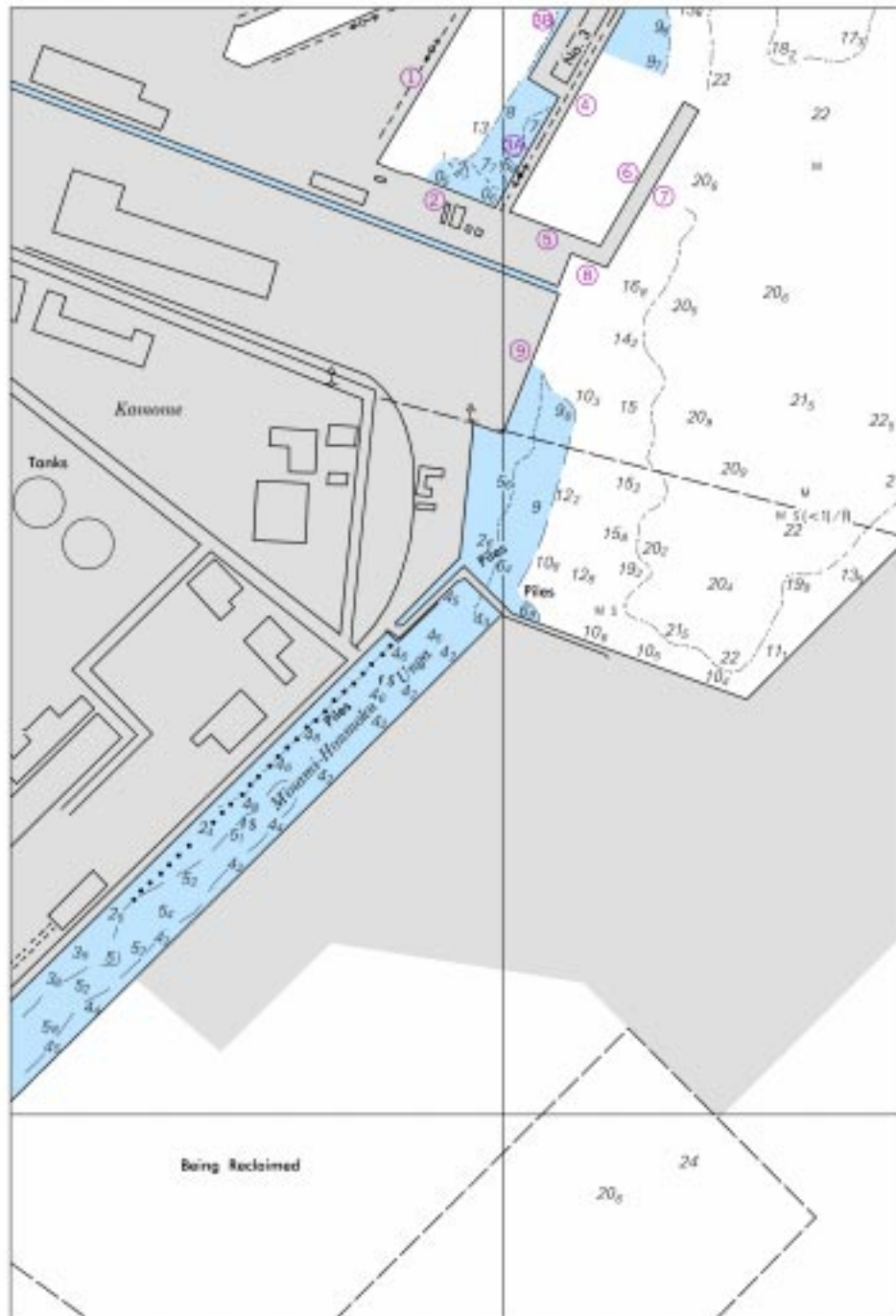


Chart 97148

(A)

NM 30/00



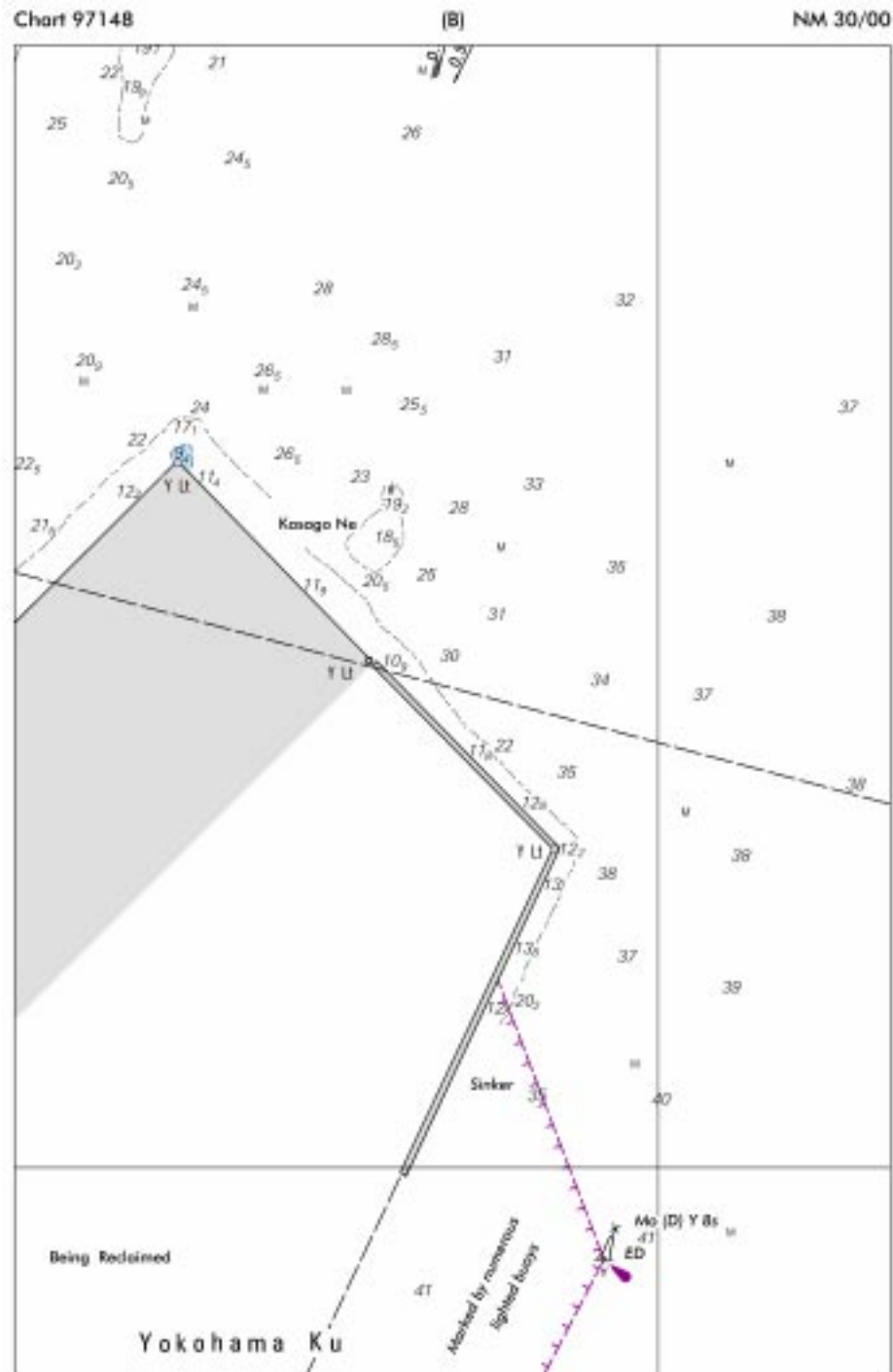
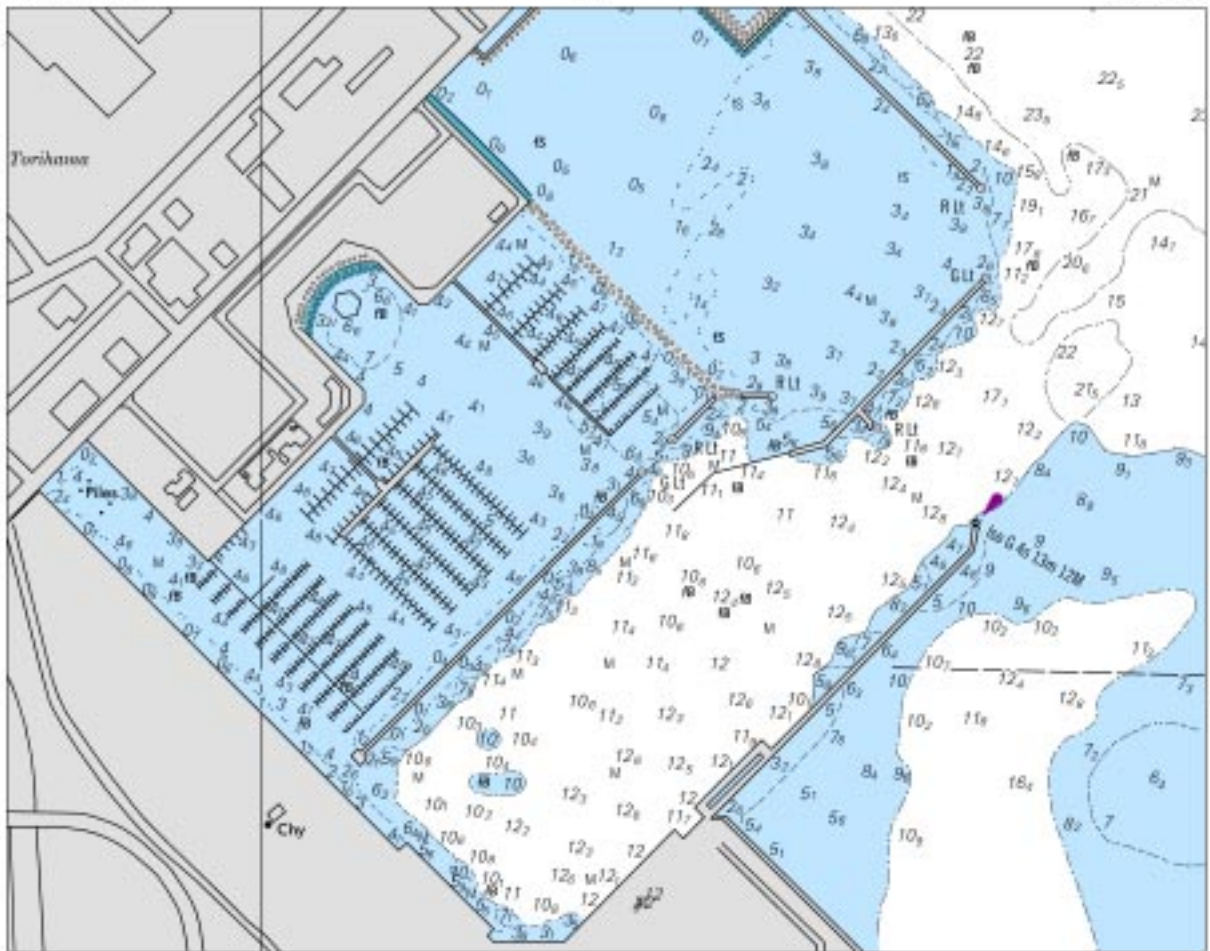


Chart 97148

(C)

NM 30/00



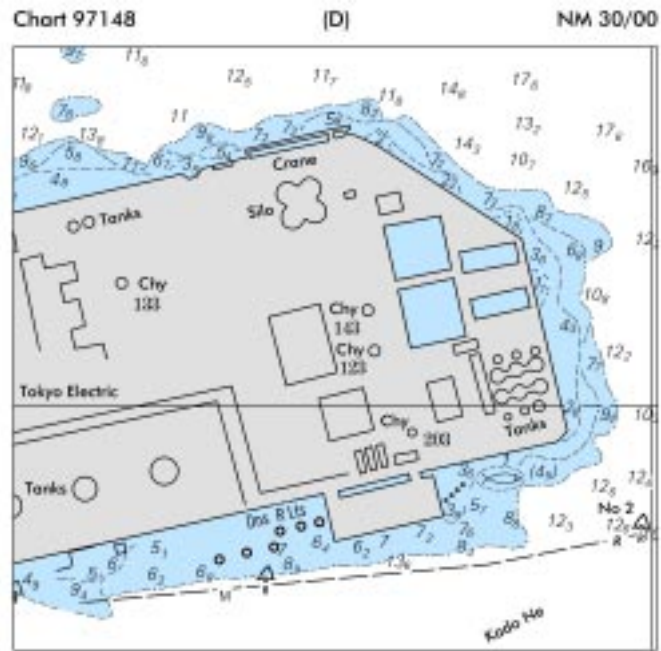


Chart 11460

NM 30/00

NOTE F

High-speed ferries operate between Lake Worth Inlet and Freeport Harbor, Grand Bahama Island. Mariners are cautioned that these craft move very rapidly and may transit waterways at angles to the normal direction of traffic. Ferries may deviate from published routes.

Chart 11466

NM 30/00

NOTE G

High-speed ferries operate between Lake Worth Inlet and Freeport Harbor, Grand Bahama Island. Mariners are cautioned that these craft move very rapidly and may transit waterways at angles to the normal direction of traffic. Ferries may deviate from published routes.

Chart 11472 (Side B)

NM 30/00

NOTE C

High-speed ferries operate between Lake Worth Inlet and Freeport Harbor, Grand Bahama Island. Mariners are cautioned that these craft move very rapidly and may transit waterways at angles to the normal direction of traffic. Ferries may deviate from published routes.

CHART 62392

NM 30/00

MARINE FARMS

Marine farms may be encountered within the area of this chart. They are not shown individually. They may be marked by lit or unlit buoys or beacons and their positions may change. Mariners are advised to avoid these structures and their associated moorings.

CHART 11506

NM 30/00

| BRUNSWICK HARBOR CHANNEL DEPTHS | | | | | | | |
|--|----------------------------|------------------------------|-----------------------------|----------------|--------------------|----------------------------|-------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 2000 | | | | | | | |
| CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW) | | | | | PROJECT DIMENSIONS | | |
| NAME OF CHANNEL | LEFT OUTSIDE QUARTER | MIDDLE HALF OF CHANNEL | RIGHT OUTSIDE QUARTER | DATE OF SURVEY | WIDTH (FEET) | LENGTH (NAUT. MILES) | DEPTH MLLW (FEET) |
| BAR CHANNEL | | | | | | | |
| (ST SIMON RANGE) | 29.5 | 31.0 | 27.5 | 5-00 | 500 | 7.7 | 32 |
| PLANTATION CREEK RANGE | 34.0 | 40.0 | 39.0 | 5-00 | 400 | 1.8 | 32 |
| JEKYLL ISLAND RANGE | 32.0 | 33.0 | 33.0 | 5-00 | 400 | 1.9 | 30 |
| CEDAR HAMMOCK RANGE | 29.0 | 30.0 | 30.5 | 5-00 | 400 | 1.4 | 30 |
| BRUNSWICK PT CUT RANGE | 24.0 | 28.0 | 27.0 | 5-00 | 400 | 2.4 | 30 |
| EAST RIVER | | | | | | | |
| LOWER REACH | 831.0 | 29.0 | 28.5 | 5-00 | 400 | 1.1 | 30 |
| UPPER REACH | 28.0 | 28.0 | 27.5 | 5-00 | 350 | 1.0 | 27 |
| EAST RIVER TURNING BASIN | 32.0 | 33.5 | 33.5 | 5-00 | 750 | 0.2 | 30 |
| ACADEMY CREEK | 9.5 | 9.5 | 11.9 | 3-89 | 150 | 0.8 | 24 |
| TURTLE RIVER LOWER RANGE | 34.0 | 31.0 | 29.0 | 5-00 | 300 | 1.7 | 30 |
| BLYTHE ISLAND RANGE | 31.0 | 28.5 | 25.0 | 5-00 | 300 | 1.5 | 30 |
| TURTLE RIVER UPPER RANGE | 28.0 | 28.0 | 27.0 | 5-00 | 300 | 2.7 | 30 |
| SOUTH BRUNSWICK RIVER | 31.0 | 31.5 | 31.0 | 5-00 | 400 | 1.3 | 30 |
| <p>A. OBSTRUCTION REPORTED WITH A DEPTH OF 29 FEET, LOCATED AT 31°04'08.6"N; 081°16'35.7"W.</p> <p>B. THE EAST RIVER, LOWER REACH WIDENER LEAST DEPTHS WERE 28.0 FEET, LOCATED 50 FEET INSIDE THE CHANNEL LIMIT, AND 29.0 FEET, LOCATED 150 FEET INSIDE THE CHANNEL LIMIT FROM THE LEFT SIDE.</p> <p>NOTE - FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 50 FEET INSIDE THE CHANNEL LIMITS. (EXCEPT FOR THE EAST RIVER TURNING BASIN AND ACADEMY CREEK)</p> <p>NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION</p> | | | | | | | |

CHART 14846 (PAGE 1)

NM 30/00

| TOLEDO HARBOR CHANNEL DEPTHS | | | | | | | | |
|---|----------------------------|---------------------------|----------------------------|-----------------------------|----------------|--------------------|----------------------------|------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JULY 1999 | | | | | | | | |
| CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD) | | | | | | PROJECT DIMENSIONS | | |
| NAME OF CHANNEL | LEFT OUTSIDE QUARTER | LEFT INSIDE QUARTER | RIGHT INSIDE QUARTER | RIGHT OUTSIDE QUARTER | DATE OF SURVEY | WIDTH (FEET) | LENGTH (NAUT. MILES) | DEPTH LWD (FEET) |
| ENTRANCE CHANNEL TO BUOY 49 | 19.2 | 26.3 | 26.0 | 21.1 | 3,4-98;3,7-99 | 500 | 18.0 | 28 |
| MAUMEE MOORING BASIN | 15.9 | 12.7 | 11.2 | 6.2 | 3,4-99 | 450 | 1.40 | 28 |
| THENCE TO BUOY 62 MAUMEE RIVER CHANNEL | 21.5 | 21.4 | 24.0 | 21.7 | 3,5,6-99 | 400 | 2.65 | 27 |
| RIVERSIDE TURNING BASIN | 21.4 | 19.4 | 19.4 | 12.3 | 5-99 | 350 | 0.25 | 20 |
| THENCE TO ANTHONY WAYNE FIXED BRIDGE | 23.6 | 26.1 | 26.0 | 22.8 | 3,5,6-99 | 200 | 2.51 | 27 |
| THENCE TO BUOY 66 | 26.3 | 26.7 | 24.8 | 26.8 | 5,6-99 | 200 | 1.08 | 27 |
| TURNING BASIN | 28.1 | 28.1 | 27.5 | 22.6 | 6-99 | 260-630 | .27 | 27 |
| THENCE TO UPSTREAM LIMIT OF PROJECT | 6.7 | 9.5 | 10.0 | 10.3 | 6-99 | 200 | .47 | 25 |
| TURNING BASIN | 11.6 | 12.0 | 12.7 | 12.6 | 6-99 | 835 | .16 | 18 |
| NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | | |

SECTION I

NM 30/00

CHART 14847

NM 30/00

| TOLEDO HARBOR CHANNEL DEPTHS | | | | | | | | |
|---|----------------------------|---------------------------|----------------------------|-----------------------------|----------------|--------------------|----------------------------|------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JULY 1999 | | | | | | | | |
| CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD) | | | | | | PROJECT DIMENSIONS | | |
| NAME OF CHANNEL | LEFT OUTSIDE QUARTER | LEFT INSIDE QUARTER | RIGHT INSIDE QUARTER | RIGHT OUTSIDE QUARTER | DATE OF SURVEY | WIDTH (FEET) | LENGTH (NAUT. MILES) | DEPTH LWD (FEET) |
| ENTRANCE CHANNEL TO BUOY 49 | 19.2 | 26.3 | 26.0 | 21.1 | 3,4-98;3,7-99 | 500 | 18.0 | 28 |
| MAUMEE MOORING BASIN | 15.9 | 12.7 | 11.2 | 6.2 | 3,4-99 | 450 | 1.40 | 28 |
| THENCE TO BUOY 62 MAUMEE RIVER | | | | | | | | |
| CHANNEL | 21.5 | 21.4 | 24.0 | 21.7 | 3,5,6-99 | 400 | 2.65 | 27 |
| RIVERSIDE TURNING BASIN | 21.4 | 19.4 | 19.4 | 12.3 | 5-99 | 350 | 0.25 | 20 |
| THENCE TO ANTHONY WAYNE FIXED | | | | | | | | |
| BRIDGE | 23.6 | 26.1 | 26.0 | 22.8 | 3,5,6-99 | 200 | 2.51 | 27 |
| THENCE TO BUOY 66 | 26.3 | 26.7 | 24.8 | 26.8 | 5,6-99 | 200 | 1.08 | 27 |
| TURNING BASIN | 28.1 | 28.1 | 27.5 | 22.6 | 6-99 | 260-630 | .27 | 27 |
| THENCE TO UPSTREAM LIMIT OF | | | | | | | | |
| PROJECT | 6.7 | 9.5 | 10.0 | 10.3 | 6-99 | 200 | .47 | 25 |
| TURNING BASIN | 11.6 | 12.0 | 12.7 | 12.6 | 6-99 | 835 | .16 | 18 |
| NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | | |

CHART 18524

NM 30/00

| COLUMBIA RIVER CHANNEL DEPTHS | | | | | | | | |
|---|----------------------------|---------------------------|----------------------------|-----------------------------|----------------|--------------------|----------------------------|------------------------|
| GULL ISLAND TURN AND CHANNEL TO SAINT HELENS TURN | | | | | | | | |
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2000 | | | | | | | | |
| CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD) | | | | | | PROJECT DIMENSIONS | | |
| NAME OF CHANNEL | LEFT OUTSIDE QUARTER | LEFT INSIDE QUARTER | RIGHT INSIDE QUARTER | RIGHT OUTSIDE QUARTER | DATE OF SURVEY | WIDTH (FEET) | LENGTH (STAT. MILES) | DEPTH CRD (FEET) |
| GULL I TURN AND CHANNEL | 43 | 44 | 41 | 41 | 5-00 | 600 | 2.2 | 40 |
| STELLA RANGE | 36 | 39 | 40 | 39 | 5-00 | 600 | 2.8 | 40 |
| FISHER I CHANNEL | 40 | 43 | 43 | 38 | 5-00 | 600 | 0.9 | 40 |
| WALKER I CHANNEL | 38 | 44 | 40 | 35 | 5-00 | 600 | 1.5 | 40 |
| BARLOW PT. CHANNEL | 46 | 47 | 43 | 42 | 5-00 | 600 | 1.3 | 40 |
| SLAUGHTERS CHANNEL | 38 | 39 | 40 | 38 | 5-00 | 600 | 2.5 | 40 |
| SLAUGHTERS TURN AND CHANNEL | | | | | | | | |
| OPPOSITE THE TURNING BASIN | 38 | 36 | 36 | 37 | 5-00 | 600 | 1.7 | 40 |
| COTTONWOOD ISLAND LOWER RANGE | 34 | 36 | 36 | 37 | 5-00 | 600 | 1.7 | 40 |
| COTTONWOOD ISLAND TURN | 42 | 41 | 38 | 35 | 4,5-00 | 600 | 2.7 | 40 |
| COTTONWOOD ISLAND UPPER | | | | | | | | |
| RANGE AND TURN | 39 | 39 | 42 | 37 | 4-00 | 600 | 1.6 | 40 |
| KALAMA LOWER RANGE | 42 | 42 | 42 | 36 | 4-00 | 600 | 1.8 | 40 |
| KALAMA UPPER RANGE | 36 | 40 | 38 | 38 | 4,5-00 | 600 | 2.2 | 40 |
| BYBEE LEDGE CHANNEL | 38 | 41 | 42 | 38 | 5-00 | 600 | 2.1 | 40 |
| MARTIN ISLAND CHANNEL | 40 | 40 | 38 | 37 | 5-00 | 600 | 2.1 | 40 |
| MARTIN ISLAND RANGE | 40 | 40 | 40 | 41 | 5-00 | 600 | 1.4 | 40 |
| COLUMBIA CITY CHANNEL | 40 | 39 | 38 | 38 | 5-00 | 600 | 1.2 | 40 |
| ST. HELENS RANGE | 39 | 42 | 41 | 38 | 4-00 | 600 | 2.0 | 40 |
| ST. HELENS TURN | 44 | 43 | 41 | 38 | 4-00 | 600 | 1.7 | 40 |
| NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | | |

SECTION I

NM 30/00

CHART 18525

NM 30/00

| COLUMBIA RIVER CHANNEL DEPTHS SAINT HELENS TURN TO TOMAHAWK BAR TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2000 | | | | | | | | |
|--|----------------------------|---------------------------|----------------------------|-----------------------------|----------------|--------------------|----------------------------|------------------------|
| CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD) | | | | | | PROJECT DIMENSIONS | | |
| NAME OF CHANNEL | LEFT OUTSIDE QUARTER | LEFT INSIDE QUARTER | RIGHT INSIDE QUARTER | RIGHT OUTSIDE QUARTER | DATE OF SURVEY | WIDTH (FEET) | LENGTH (STAT. MILES) | DEPTH CRD (FEET) |
| ST. HELENS TURN | 46 | 43 | 43 | 39 | 2-00 | 600 | 1.7 | 40 |
| WARRIOR ROCK RANGE | 40 | 40 | 41 | 43 | 2-00 | 600 | 1.3 | 40 |
| DUCK CLUB TURN | 37 | 41 | 42 | 43 | 2-00 | 600 | 1.4 | 40 |
| HENRICI RANGE | 39 | 38 | 39 | 39 | 2-00 | 600 | 2.6 | 40 |
| FALES CHANNEL | 42 | 41 | 40 | 38 | 2-00 | 600 | 1.1 | 40 |
| KNAPP POINT CHANNEL | 42 | 41 | 40 | 37 | 2-00 | 600 | 1.8 | 40 |
| WILLOW LOWER RANGE | 39 | 39 | 37 | 36 | 2-00 | 600 | 2.1 | 40 |
| WILLOW UPPER RANGE | 40 | 42 | 41 | 44 | 2-00 | 600 | 1.1 | 40 |
| MORGAN TURN | 39 | 44 | 46 | 48 | 2-00 | 600 | 1.0 | 40 |
| MORGAN CHANNEL | 47 | 45 | 42 | 44 | 2-00 | 600 | 1.5 | 40 |
| VANCOUVER LOWER CHANNEL | 48 | 50 | 52 | 46 | 2-00 | 500 | 1.0 | 40 |
| VANCOUVER RANGE | 40 | 40 | 40 | 39 | 2-00 | 500 | 1.3 | 40 |
| VANCOUVER UPPER CHANNEL | 42 | 42 | 39 | 38 | 2-00 | 500 | 0.9 | 40 |
| VANCOUVER LOWER TURNING BASIN | 33 | 33 | 38 | 39 | 4-00 | 800 | 1.0 | 40 |
| VANCOUVER UPPER TURNING BASIN | 29 | 24 | 25 | 23 | 4-00 | 800 | 0.9 | 35 |
| TOMAHAWK BAR | 11 | 15 | 17 | 15 | 3-00 | 300 | 3.7 | 27 |
| NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | | |

CHART 18526

NM 30/00

| COLUMBIA RIVER CHANNEL DEPTHS MORGAN CHANNEL TO TOMAHAWK BAR TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2000 | | | | | | | | |
|---|----------------------------|---------------------------|----------------------------|-----------------------------|----------------|--------------------|----------------------------|------------------------|
| CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD) | | | | | | PROJECT DIMENSIONS | | |
| NAME OF CHANNEL | LEFT OUTSIDE QUARTER | LEFT INSIDE QUARTER | RIGHT INSIDE QUARTER | RIGHT OUTSIDE QUARTER | DATE OF SURVEY | WIDTH (FEET) | LENGTH (STAT. MILES) | DEPTH CRD (FEET) |
| MORGAN CHANNEL | 47 | 45 | 42 | 44 | 2-00 | 600 | 1.5 | 40 |
| VANCOUVER LOWER CHANNEL | 48 | 50 | 52 | 46 | 2-00 | 500 | 1.0 | 40 |
| VANCOUVER RANGE | 40 | 40 | 40 | 39 | 2-00 | 500 | 1.3 | 40 |
| VANCOUVER UPPER CHANNEL | 42 | 42 | 39 | 38 | 2-00 | 500 | 0.9 | 40 |
| VANCOUVER LOWER TURNING BASIN | 33 | 33 | 38 | 39 | 4-00 | 800 | 1.0 | 40 |
| VANCOUVER UPPER TURNING BASIN | 29 | 24 | 25 | 23 | 4-00 | 800 | 0.9 | 35 |
| TOMAHAWK BAR | 11 | 15 | 17 | 15 | 3-00 | 300 | 3.7 | 27 |
| NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | | |

SECTION I

NM 30/00

CHART 18531 (SIDE A)

NM 30/00

| COLUMBIA RIVER CHANNEL DEPTHS TOMAHAWK BAR TO BONNEVILLE LOCKS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2000 | | | | | | | |
|---|----------------------------|------------------------------|-----------------------------|--------------------|-----------------|------------------------|----------------------|
| * SEE FOOTNOTE | | | | PROJECT DIMENSIONS | | | |
| NAME OF CHANNEL | LEFT OUTSIDE QUARTER | MIDDLE HALF OF CHANNEL | RIGHT OUTSIDE QUARTER | DATE OF SURVEY | WIDTH (FEET) | LENGTH * (MILES) | DEPTH * (FEET) |
| TOMAHAWK BAR | 11 | 15 | 15 | 3-00 | 300 | 3.7 | 27 |
| AIRPORT BAR | 18 | 17 | 17 | 2-99; 1,3-00 | 300 | 2.8 | 27 |
| GOVERNMENT ISLAND LOWER RANGE | 14 | 14 | 16 | 2-99; 1,3-00 | 300 | 1.1 | 27 |
| GOVERNMENT ISLAND MIDDLE RANGE | 14 | 15 | 16 | 2-99; 1-00 | 300 | 1.6 | 27 |
| FISHER QUARRY CHANNEL RANGE | 28 | 25 | 24 | 2-99; 1-00 | 300 | 1.0 | 27 |
| GOVERNMENT ISLAND RANGE | 17 | 19 | 23 | 2,10-99; 1,3-00 | 300 | 1.1 | 27 |
| GOVERNMENT ISLAND UPPER RANGE | 12 | 17 | 17 | 3-00 | 300 | 0.8 | 27 |
| LADY ISLAND RANGE | 17 | 19 | 20 | 3-00 | 300 | 2.1 | 27 |
| LADY ISLAND CHANNEL AND UPPER RANGE | 27 | 27 | 18 | 3-00 | 300 | 0.9 | 27 |
| WASHOUGAL LOWER RANGE | 27 | 25 | 25 | 3-00 | 300 | 1.5 | 27 |
| WASHOUGAL UPPER RANGE | 16 | 18 | 26 | 3-00 | 300 | 1.1 | 27 |
| GARY ISLAND RANGE | 14 | 14 | 13 | 9-98; 2-99; 3-00 | 300 | 0.9 | 27 |
| REED ISLAND RANGE | 15 | 15 | 15 | 2,3-00 | 300 | 2.2 | 27 |
| TUNNEL POINT CHANNEL | 22 | 22 | 22 | 2-00 | 300 | 0.8 | 27 |
| ROOSTER ROCK CHANNEL | 22 | 21 | 23 | 2-00 | 300 | 1.2 | 27 |
| CAPE HORN CHANNEL | 20 | 26 | 28 | 3-98; 2-99; 2-00 | 300 | 2.4 | 27 |
| CANDIANA CHANNEL | 27 | 26 | 24 | 3-98; 2-99; 2-00 | 300 | 1.0 | 27 |
| FASHION REEF LOWER RANGE | 15 | 18 | 20 | 2-00 | 300 | 2.2 | 27 |
| MULTNOMAH FALLS BAR RANGE | 11 | 23 | 15 | 2-00 | 300 | 1.3 | 27 |
| MULTNOMAH FALLS TURN | 11 | 16 | 20 | 4-98; 2-99; 2-00 | 300 | 0.8 | 27 |
| MULTNOMAH FALLS UPPER RANGE | 17 | 19 | 23 | 4-98; 2-99; 2-00 | 300 | 3.2 | 27 |
| MCGOWANS CHANNEL | 36 | 28 | 25 | 4-98; 2-00 | 300 | 1.1 | 27 |
| WARRENDALE LOWER RANGE | 22 | 21 | 21 | 2-00 | 300 | 0.9 | 27 |
| WARRENDALE UPPER RANGE | 26 | 28 | 19 | 2-00 | 300 | 0.8 | 27 |
| HAMILTON ISLAND REACH | 24 | 28 | 17 | 10-98; 2-00 | 300 | 0.9 | 27 |
| ENTRANCE TO BONNEVILLE LOCKS | 22 | 22 | 24 | 3-98 | 300 | 0.6 | 27 |

* CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM AND MAINTAINED TO 15 FEET.
PROJECT LENGTHS ARE IN STATUTE MILES.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 18581

NM 30/00

| YAQUINA BAY AND RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2000 | | | | | | | |
|--|----------------------------|------------------------------|-----------------------------|--------------------|-----------------|----------------------------|-------------------------|
| CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW) | | | | PROJECT DIMENSIONS | | | |
| NAME OF CHANNEL | LEFT OUTSIDE QUARTER | MIDDLE HALF OF CHANNEL | RIGHT OUTSIDE QUARTER | DATE OF SURVEY | WIDTH (FEET) | LENGTH (NAUT. MILES) | DEPTH MLLW (FEET) |
| CHANNEL ENTRANCE 44°36'23"N, 124°05'24"W TO FIRST TURN | 24 | 30 | 26 | 4-00 | 400-300 | 1.3 | 40-30 |
| THENCE TO TURNING BASIN | 21 | 29 | 18 | 6-99; 4-00 | 300-400 | 1.3 | 30 |
| TURNING BASIN | 15 | 24 | 24 | 4-00 | 300-1200 | 0.3 | 30 |
| THENCE TO YAQUINA | 15 | 12 | 12 | 7-98 | 200 | 1.6 | 18 |
| THENCE TO END OF PROJECT | 02A | 07 | 05B | 7-98 | 150 | 9.7 | 10 |

A. SHOAL TO BARE AT 44°36'57.7"N, 123°56'34.2"W.
B. SHOAL TO BARE AT 44°36'42.0"N, 123°56'55.5"W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 30/00

CHART 18584

NM 30/00

| UMPUA RIVER CHANNEL DEPTHS | | | | | | | |
|---|----------------------------|------------------------------|-----------------------------|----------------|--------------------|----------------------------|-------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2000 AND SURVEYS TO MAY 2000 | | | | | | | |
| CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW) | | | | | PROJECT DIMENSIONS | | |
| NAME OF CHANNEL | LEFT OUTSIDE QUARTER | MIDDLE HALF OF CHANNEL | RIGHT OUTSIDE QUARTER | DATE OF SURVEY | WIDTH (FEET) | LENGTH (NAUT. MILES) | DEPTH MLLW (FEET) |
| ENTRANCE CHANNEL TO LT. 21 | 16 | 18 | 17 | 9-99; 5-00 | 200 | 7.0 | 26-22 |
| LT 21 TO REEDSPORT | 19 | 19 | 18 | 5-00 | 200 | 2.7 | 22 |
| REEDSPORT TURNING BASIN | 25 | 23 | 23 | 5-00 | 600 | 0.2 | 22 |
| LT. 21 TO GARDINER | 15 | 13 | 11 | 5-00 | 200 | 1.15 | 22 |
| TURNING BASIN | 3 | 2 | 2 | 9-98; 5, 9-99 | 500 | 0.2 | 22 |
| NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | |

CHART 18649

NM 30/00

| SAN FRANCISCO BAY | | | | | | | | |
|---|----------------------------|---------------------------|----------------------------|-----------------------------|----------------|--------------------|----------------------------|-------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2000 | | | | | | | | |
| CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW) | | | | | | PROJECT DIMENSIONS | | |
| NAME OF CHANNEL | LEFT OUTSIDE QUARTER | LEFT INSIDE QUARTER | RIGHT INSIDE QUARTER | RIGHT OUTSIDE QUARTER | DATE OF SURVEY | WIDTH (FEET) | LENGTH (NAUT. MILES) | DEPTH MLLW (FEET) |
| MAIN SHIP CHANNEL: ENTRANCE | 47.9 | 52.0 | 52.5 | 51.6 | 3,4-00 | 2000 | 3.5 | 55 |
| NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | | |

CHART 18650

NM 30/00

| OAKLAND OUTER AND INNER HARBORS | | | | | | | | |
|---|----------------------------|---------------------------|----------------------------|-----------------------------|------------------|--------------------|----------------------------|-------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2000 | | | | | | | | |
| CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW) | | | | | | PROJECT DIMENSIONS | | |
| NAME OF CHANNEL | LEFT OUTSIDE QUARTER | LEFT INSIDE QUARTER | RIGHT INSIDE QUARTER | RIGHT OUTSIDE QUARTER | DATE OF SURVEY | WIDTH (FEET) | LENGTH (NAUT. MILES) | DEPTH MLLW (FEET) |
| BAR CHANNEL | 40.1 | 41.9 | 42.3 | A39.3 | 2-00 | 1000-930 | 0.57 | 42 |
| OUTER HARBOR ENTRANCE CHANNEL | 41.7 | 42.2 | 42.1 | 40.8 | 2-00 | 900-600 | 0.91 | 42 |
| OUTER HARBOR | 40.1 | 40.3 | 41.2 | B39.7 | 2-00 | 1575-600 | 1.40 | 42 |
| INNER HARBOR | | | | | | | | |
| ENTRANCE CHANNEL | 41.0 | 41.1 | 41.6 | 40.9 | 2-00 | 2100-480 | 1.10 | 42 |
| INNER HARBOR REACH | C36.4 | 40.9 | 40.5 | 40.1 | 2-00 | 1325-480 | 2.27 | 42 |
| GROVE ST PIER TO | | | | | | | | |
| BROOKLYN BASIN | D22.9 | 33.5 | 34.5 | E25.3 | 2-96;1-97;8,9-99 | 600 | 1.30 | 42 |
| BROOKLYN BASIN SOUTH CHANNEL | F19.5 | 25.2 | 24.7 | G11.9 | 3,4-95;2-96 | 600-500 | 0.90 | 42 |
| PARK ST BRIDGE REACH | 13.9 | 20.3 | 23.5 | 11.3 | 7-86;3-88 | 500-275 | 0.42 | 42 |
| A. A DEPTH OF 41.4 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER. B. A DEPTH OF 41.7 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER. C. A DEPTH OF 41.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER. D. A DEPTH OF 34.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER. E. A DEPTH OF 34.1 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER. F. A DEPTH OF 24.9 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER. G. A DEPTH OF 20.6 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | | |

SECTION I

NM 30/00

CHART 18652 (PAGE E)

NM 30/00

| SUISUN BAY AND SAN JOAQUIN RIVER | | | | | | | |
|---|----------------------------|------------------------------|-----------------------------|-----------------|--------------------|----------------------------|-------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JAN 2000 | | | | | | | |
| CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW) | | | | | PROJECT DIMENSIONS | | |
| NAME OF CHANNEL | LEFT OUTSIDE QUARTER | MIDDLE HALF OF CHANNEL | RIGHT OUTSIDE QUARTER | DATE OF SURVEY | WIDTH (FEET) | LENGTH (NAUT. MILES) | DEPTH MLLW (FEET) |
| SUISUN PT. REACH | 45.2 | 45.8 | 47.9 | 11,12-97 | 300 | 0.8 | 35 |
| BULLS HEAD CHANNEL | 31.1 | 32.8 | 34.7 | 11,12-97 | 300-350 | 1.2 | 35 |
| EAST BULLS HEAD CHANNEL | 33.1 | 32.8 | 32.7 | 11,12-97/ 11-99 | 350 | 1.1 | 35 |
| PT. EDITH CROSSING RANGE | 36.8 | 34.0 | 33.8 | 11-99 | 350 | 1.1 | 35 |
| PRESTON PT. REACH | 36.3 | 35.0 | 34.2 | 11-99 | 350 | 0.9 | 35 |
| ROE ISLAND CHANNEL | 32.2 | 34.3 | 34.5 | 11-99 | 350 | 1.1 | 35 |
| PORT CHICAGO REACH | 37.2 | 36.9 | 36.7 | 11-99 | 350 | 0.52 | 35 |
| MIDDLE GROUND CHANNEL | | | | | | | |
| WEST REACH | 35.6 | 36.2 | 35.6 | 11-99 | 350 | 1.29 | 35 |
| EAST REACH | 35.0 | 36.1 | 34.5 | 11-99 | 350 | 1.09 | 35 |
| NEW YORK SLOUGH | | | | | | | |
| WEST REACH | 32.1 | 34.9 | 35.5 | 11,12-97/ 1-00 | 400 | 1.3 | 35 |
| EAST REACH | 34.3 | 34.7 | 34.2 | 11,12-97/ 1-00 | 400 | 1.7 | 35 |
| SAN JOAQUIN RIVER | | | | | | | |
| ANTIOCH REACH | 30.1 | 31.3 | 30.1 | 3,12-99 | 400 | 3.3 | 35 |
| NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | |

CHART 18656

NM 30/00

| SUISUN BAY | | | | | | | |
|---|----------------------------|------------------------------|-----------------------------|-----------------|--------------------|----------------------------|-------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JAN 2000 | | | | | | | |
| CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW) | | | | | PROJECT DIMENSIONS | | |
| NAME OF CHANNEL | LEFT OUTSIDE QUARTER | MIDDLE HALF OF CHANNEL | RIGHT OUTSIDE QUARTER | DATE OF SURVEY | WIDTH (FEET) | LENGTH (NAUT. MILES) | DEPTH MLLW (FEET) |
| SUISUN PT. REACH | 45.2 | 45.8 | 47.9 | 11,12-97 | 300 | 0.8 | 35 |
| BULLS HEAD CHANNEL | 31.1 | 32.8 | 34.7 | 11,12-97 | 300-350 | 1.2 | 35 |
| EAST BULLS HEAD CHANNEL | 33.1 | 32.8 | 33.2 | 11,12-97/ 11-99 | 350 | 1.1 | 35 |
| PT. EDITH CROSSING RANGE | 36.8 | 34.0 | 32.7 | 11-99 | 350 | 1.1 | 35 |
| PRESTON PT. REACH | 36.3 | 35.0 | 34.2 | 11-99 | 350 | 0.9 | 35 |
| ROE ISLAND CHANNEL | 32.2 | 34.3 | 34.5 | 11-99 | 350 | 1.1 | 35 |
| PORT CHICAGO REACH | 37.2 | 36.9 | 36.7 | 11-99 | 350 | 0.52 | 35 |
| MIDDLE GROUND CHANNEL | | | | | | | |
| WEST REACH | 35.6 | 36.2 | 35.6 | 11-99 | 350 | 1.29 | 35 |
| EAST REACH | 35.0 | 36.1 | 34.5 | 11,12-97/ 11-99 | 350 | 1.09 | 35 |
| NEW YORK SLOUGH | | | | | | | |
| WEST REACH | 32.1 | 34.9 | 35.5 | 11,12-97/ 1-00 | 400 | 1.3 | 35 |
| EAST REACH | 34.3 | 34.7 | 34.2 | 11,12-97/ 1-00 | 400 | 1.7 | 35 |
| NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | |

CHART 18657

NM 30/00

| SUISUN BAY | | | | | | | |
|---|----------------------------|------------------------------|-----------------------------|-----------------|--------------------|----------------------------|-------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JAN 2000 | | | | | | | |
| CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW) | | | | | PROJECT DIMENSIONS | | |
| NAME OF CHANNEL | LEFT OUTSIDE QUARTER | MIDDLE HALF OF CHANNEL | RIGHT OUTSIDE QUARTER | DATE OF SURVEY | WIDTH (FEET) | LENGTH (NAUT. MILES) | DEPTH MLLW (FEET) |
| SUISUN PT. REACH | 45.2 | 45.8 | 47.9 | 11,12-97 | 300 | 0.8 | 35 |
| BULLS HEAD CHANNEL | 31.1 | 32.8 | 34.7 | 11,12-97 | 300-350 | 1.2 | 35 |
| EAST BULLS HEAD CHANNEL | 33.1 | 32.8 | 33.2 | 11,12-97/ 11-99 | 350 | 1.1 | 35 |
| PT. EDITH CROSSING RANGE | 36.8 | 34.0 | 32.7 | 11-99 | 350 | 1.1 | 35 |
| NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | |

SECTION I

NM 30/00

CHART 18659

NM 30/00

| SUISUN BAY | | | | | | | |
|---|----------------------------|------------------------------|-----------------------------|----------------|--------------------|----------------------------|-------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JAN 2000 | | | | | | | |
| CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW) | | | | | PROJECT DIMENSIONS | | |
| NAME OF CHANNEL | LEFT OUTSIDE QUARTER | MIDDLE HALF OF CHANNEL | RIGHT OUTSIDE QUARTER | DATE OF SURVEY | WIDTH (FEET) | LENGTH (NAUT. MILES) | DEPTH MLLW (FEET) |
| NEW YORK SLOUGH | | | | | | | |
| WEST REACH | 32.1 | 34.9 | 35.5 | 11,12-97/ 1-00 | 400 | 1.3 | 35 |
| EAST REACH | 34.3 | 34.7 | 34.2 | 11,12-97/ 1-00 | 400 | 1.7 | 35 |
| NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | |

CHART 18773

NM 30/00

| SAN DIEGO HARBOR CHANNEL DEPTHS | | | | | | | |
|---|----------------------------|------------------------------|-----------------------------|----------------|--------------------|----------------------------|-------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 1998 | | | | | | | |
| CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW) | | | | | PROJECT DIMENSIONS | | |
| NAME OF CHANNEL | LEFT OUTSIDE QUARTER | MIDDLE HALF OF CHANNEL | RIGHT OUTSIDE QUARTER | DATE OF SURVEY | WIDTH (FEET) | LENGTH (NAUT. MILES) | DEPTH MLLW (FEET) |
| SAN DIEGO HARBOR ENTRANCE CHANNEL | 45.6 | 46.6 | 45.7 | 9-98 | 800 | 2.1 | 42 |
| NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | |